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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/759,130	01/12/2001	Christopher C. Fraser	MPI00-535OMNIM	2853	
75	90 03/17/2003				
Jean M. Silveri Millenium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139			EXAMINER		
			ЛANG, DONG -		
			ART UNIT	PAPER NUMBER	
•			1646	4.4	
			DATE MAILED: 03/17/2003	16	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applic	cation No.	A	oplicant(s)				
Office Action Summary		9,130		RASER ET AL.				
		iner		t Unit				
		Jiang		346				
The MAILING DATE of this com								
P riod for Reply								
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this - If the period for reply specified above is less than the - If NO period for reply is specified above, the maxim - Faillure to reply within the set or extended period for Any reply received by the Office later than three moderned patent term adjustment. See 37 CFR 1.704 Status	MUNICATION. risions of 37 CFR 1.136(a). In n communication. rirty (30) days, a reply within the rum statutory period will apply ar reply will, by statute, cause the roths after the mailing date of thi	o event, however, restatutory minimum of will expire SIX (6 application to become	may a reply be timely to of thirty (30) days will b) MONTHS from the rome ABANDONED (3	illed be considered timely. nailing date of this communication. 5 U.S.C. § 133).				
1) Responsive to communication(s) filed on							
2a) This action is FINAL .	2b)⊠ This action	n ie non-final						
<u>- </u>	,—		il mattere innec	ocution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-85</u> is/are pending in	, ,							
<u></u>	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claim(s) <u>1-85</u> are subject to restriction and/or election requirement. Application Papers								
9) ☐ The specification is objected to b	v the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the prid	1. Certified copies of the priority documents have been received.							
2. Certified copies of the price	2. Certified copies of the priority documents have been received in Application No							
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Reviols) Information Disclosure Statement(s) (PTO-14)	ew (PTO-948) 49) Paper No(s)		ce of Informal Pate	rO-413) Paper No(s) nt Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - A. Claims 1-7, 12, and 26-55, drawn to isolated nucleic acid molecules, vectors thereof, host cells, and methods of recombinant expression of such, classified in class 435, subclass 69.1.
 - B. Claims 8-10, and 56-85, drawn to isolated polypeptides, classified in class 530, subclass 350.
 - C. Claims 11, 23 and 24 drawn to antibodies specific to said polypeptides, and a method of making thereof, classified in class 530, subclass 387.9.
 - D. Claims 13 and 14, drawn to a method for detecting said polypeptide, classified in class 436, subclass 501.
 - E. Claim 15, drawn to a kit comprising a compound binding to said polypeptide, classified in class 436, subclass 808.
 - F. Claims 16-18, drawn to a method, and a kit for detecting said nucleic acid molecules, classified in class 435, subclass 6.
 - G. Claims 19, 20, and 22 drawn to a method for identifying a compound, classified in class 436, subclass 501.
 - H. Claim 21, drawn to a method for modulating the activity of said polypeptide, classified in class 435, subclass 7.1.
 - I. Claim 25, drawn to a method of making an antibody substance by contacting the polypeptide with a plurality of particles comprising an antibody and a nucleic acid encoding thereof, classified in class 435, subclass 7.1.

The inventions are distinct, each from the other because:

The nucleic acids of Invention A are related to the polypeptides of Invention B by virtue of encoding same. The DNA molecule has utility for the recombinant production of the protein in a host cell. Although the DNA molecules and proteins are related since the DNA encodes the specifically claimed protein, they are distinct inventions because they are physically and functionally distinct chemical entities, and the protein product can be made by another and

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materially different process, such as by synthetic peptide synthesis or purification from the natural source. Further, the DNA may be used for processes other than the production of the protein, such as nucleic acid hybridization assay of Invention F.

The methods of Invention A are related to the proteins of Invention B as process of making and product made. The Inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP 806.05(f)). In the instant case the products as claimed may be isolated from their natural source or made by chemical peptide synthesis.

The products of Invention A are distinct and unrelated from the antibodies of Invention C because they are physically and functionally distinct chemical entities which share neither structure nor function. The methods of Invention A are distinct and unrelated from the antibodies of Invention C because the antibodies may be neither made by nor used in the method.

Inventions A and D are distinct and unrelated, wherein the products of Invention A can be neither made by nor used in the method of Inventions D, and wherein each does not require the other.

The products of Invention A is distinct and unrelated from the kit of Inventions E because they are physically and functionally distinct chemical entities which share neither structure nor function.

Inventions A and F are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product of Inventions A as claimed may be used for the production of the polypeptide of Invention B.

Invention A, and each of Inventions G - I are distinct and unrelated, wherein the products of Invention A can be neither made by nor used in the methods of Inventions G - I, and wherein each does not require the other.

The polypeptides of Invention B are related to the antibodies of Invention C by virtue of being the cognate antigen, necessary for the production of the antibodies. Although the protein

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and antibody are related due to the necessary stearic complementarity of the two, they are distinct inventions because they are physically and functionally distinct chemical entities, and because the protein can be used another and materially different process from the use for production of the antibody, such as in a pharmaceutical composition in its own right, or in assays of Invention E for the identification of a compound binding to the polypeptide.

Invention B is related to each of Inventions D, G, H and I as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown:

(1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used for the production of the antibody of Invention C.

The product of Invention B is distinct and unrelated from the kit of Inventions E because they are physically and functionally distinct chemical entities which share neither structure nor function.

Inventions B, and F are distinct and unrelated, wherein the products of Invention B can be neither made by nor used in the method of Invention F, and wherein each does not require the other.

Inventions C, and D are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used for the purification of the polypeptide of Invention B.

The product of Invention C is distinct and unrelated from the kit of Inventions E because they are physically and functionally distinct chemical entities which share neither structure nor function.

Inventions C, and F - H are distinct and unrelated, wherein the products of Invention C can be neither made by nor used in the method of Invention F - H, and wherein each does not require the other.

Inventions I and C are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the antibody can be made by the method of Invention C.

Inventions E and D are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed may be used for a method of treatment, or as an antigen for producing antibodies.

Inventions D and F are distinct and unrelated, wherein each does not require the other.

Inventions D, G, H and I are drawn to methods for using the polypeptides, wherein each of the methods is distinct as each is a different assay, and requires independent testing objects, starting elements, reagents, and methods steps, such that they require non-coextensive searches.

Inventions E, and F - I are distinct and unrelated, wherein the product of Invention E can be neither made by nor used in the method of Invention F - H, and wherein each does not require the other.

Inventions F and G - I are distinct and unrelated, wherein each does not require the other.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and/or recognized divergent subject matter, restriction for examination purposes as indicated is proper.

- 2. Furthermore, regardless of which Invention applicants elect above, further **restriction** is required under 35 U.S.C. 121:
 - I. One specific nucleotide sequence with SEQ ID NO: and/or ATCC accession number from the nucleotide sequences listed in claim 1, part a); and/or
 - II. One specific amino acid sequence with SEQ ID NO: from the amino acid sequences listed in claim 1, part c), which corresponds to the nucleotide sequence elected from "I.".

The inventions are distinct, each from the other because of the following reasons:

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Although there are no provisions under the section for "Relationship of Inventions" in M.P.E.P. § 806.05 for inventive groups that are directed to *different* products, restriction is deemed to be proper because these products constitute patentably distinct inventions for the following reasons. Each of SEQ ID NOs is a unique and separately patentable sequence, requiring a unique search of the prior art. Searching all of the sequences in a single patent application would constitute an undue search burden on the examiner and the USPTO's resources because of the non-coextensive nature of these searches.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

In order to be fully responsive, Applicant must elect one from Groups A - I, and one from I to II even though the requirement is traversed. Applicant is advised that neither A - I nor I - II are species election requirements; rather, each of A - I and I - II is a restriction requirement.

Applicant is reminded that upon the cancellation of claims to a non - elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Advisory Information

Any inquiry concerning this communication should be directed to Dong Jiang whose telephone number is (703) 305-1345. The examiner can normally be reached on Monday - Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564. The fax phone number for the organization where this application or proceeding is assigned is 703 - 308 - 0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 - 308 - 0196.

LORRAINE SPECTOR PRIMARY EXAMINER

DJ 3/11/03